WHAT IS CLAIMED IS:

1) Contactless data transmission system with
   - an encoding algorithm (A64) with which
     - the input data (R_{64}, R_{32}), which are processed with the encoding algorithm (A64), are linked with
     - a secret code (CODE) that determines the encoding algorithm (A64),

   wherein the data transmission system has a facility (12, S64/S32) for setting to different formats of the input data (R_{64}, R_{32}) for the encoding algorithm (A64).

2) Contactless data transmission system in accordance with Patent Claim 1, **wherein** the facility for setting to different formats of the input data (R_{64}, R_{32}) is a control line (S64/S32).

3) Contactless data transmission system in accordance with Patent Claim 1, **wherein** the facility for setting to different formats of the input data (R_{64}, R_{32}) is a switch (12).

4) Method for a contactless data transmission system in accordance with Patent Claim 1, **wherein** the same encoding algorithm (A64) is used for the various formats of the input data (R_{64}, R_{32}).

5) Method for a contactless data transmission system in accordance with Patent Claim 2, **wherein** the same encoding algorithm (A64) is used for the various formats of the input data (R_{64}, R_{32}).

6) Method for a contactless data transmission system in accordance with Patent Claim 3, **wherein** the same encoding algorithm (A64) is used for the various formats of the input data (R_{64}, R_{32}).

7) Method for a contactless data transmission system in accordance with Patent Claim 1, **wherein** the same secret code (CODE) is used for the various formats of the input data (R_{64}, R_{32}).

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8) Method for a contactless data transmission system in accordance with Patent Claim 2, **wherein** the same secret code (CODE) is used for the various formats of the input data (R_{64}, R_{32}).

9) Method for a contactless data transmission system in accordance with Patent Claim 3, **wherein** the same secret code (CODE) is used for the various formats of the input data (R_{64}, R_{32}).

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10) Method for a contactless data transmission system in accordance with Patent Claim 4, **wherein** the same secret code (CODE) is used for the various formats of the input data (R_{64}, R_{32}).

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